



**Electronic Systems  
Northrop Grumman Systems Corporation  
Post Office Box 1521, MS-3T15  
Baltimore, Maryland 21203**

January 14, 2013

ATTN: Document Control Desk

Director, Office of Federal and State Materials and  
Environmental Management Programs  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Subject: Product Transfer Report for 2012 (License #19-00428-11E)

Please find attached, the Product Transfer Report for year 2012, as specified in Section 32.16 of 10 CFR Part 32. The listed products are transferred for use under Section 30.15, para. (a)(8)(i) and (vi), of 10 CFR Part 30, and per Maryland Radioactive Material License # MD-03-005-03.

Should you have any questions please feel free to contact me at 410-993-5798.

Sincerely,

Dennis Burns  
Radiation Safety Officer  
Microwave Control Design  
Electronic Systems  
Northrop Grumman Systems Corp.

# Product Transfer Report

(License #19-00428-11E)

**(January 1, 2012 through December 31, 2012)**

Unit	# of Units	# of Tritium Rods per Unit	# of Rods	Tritium Activity per Rod (mCi)	Total Tritium Activity (Ci)	Promethium 147 Per Unit (μCi)	Total Promethium 147 Activity (mCi)
436R178G01	100	0	0	0	0.000	12	1.200
561R140H04	68	0	0	0	0.000	30	2.040
561R140H01	3	1	3	142	0.426	0	0.000
561R140H03	1	1	1	142	0.142	0	0.000
583R534H10	8	0	0	0	0.000	28	0.224
588R499H01	16	1	16	110	1.760	4	0.064
3D61489H01	1	2	2	61	0.122	0	0.000
346R035H01	116	1	116	142	16.472	0	0.000
346R035H03	44	1	44	142	6.248	0	0.000
581R815H08	1	1	1	50	0.050	16	0.016
6867277-1	11	0	0	0	0.000	30	0.330